

Reptile and Amphibian Type Specimens in the Collection of the National Museums of Kenya

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Abstract. Type specimens of East African reptiles and amphibians housed in the Herpetology Section, Department of Zoology of the National Museums of Kenya (NMK) are listed. There are a total of 22 species or subspecies names that have types in NMK, out of which 12 (55%) are presented by the holotypes. The specific names are arranged alphabetically under their respective families. The reference to the original description and specimen attributes such as gender and accession number for each taxon are provided.

Key words. Type specimens, Amphibia, Reptilia, NMK Nairobi

INTRODUCTION

The herpetology collection in the National Museums of Kenya, Nairobi (NMK) remains the largest repository in East and Central Africa. Over the last century, NMK has benefitted from such legendary contributors as Arthur Loveridge and C. J. Ionides among others. Computerization of the voucher specimens has undergone many phases and was implemented under the phase II of the German BIOTA East Africa Project (subproject E15: Capacity building in biodiversity information systems). The data capture was carried out using the biodiversity collections software SPECIFY. It is expected that full information at the specimen level will be digitally available for the entire collection.

This catalogue comprises 109 specimens in 22 species or subspecies (11 in each Anura and Reptilia) that comprise 12 holotypes (six in Anura and 6 in Reptilia) and 97 paratypes.

The specific taxa of amphibians and reptiles are grouped by families and arranged alphabetically. The details in the catalogue include the species epithet, full original name with author(s), year of publication and page number, followed by catalogue number(s), gender and kind of type specimen. All types are listed with full locality information. This information includes names and geo-references of the collection sites, surname and initials of the collector(s), and the dates of collection. Geo-references were taken by GPS as cited in the original descriptions or are approximations from the East African Gazetteer (1946–1949) or Google Earth (2009). Locality information for paratype specimens collected at the same locality and date by different collectors or collected by the same collector in the same locality but at different dates is pooled.

AMPHIBIA

ANURA

Arthroleptidae

mackayi, *Leptopelis mackayi* Kohler, Bwong, Schick, Veith & Lötters, 2006: 184

A/3057: HT adult ♂: Kenya: Western Province, Kakamega District, southern Kakamega Forest from Rondo Retreat Centre, Isecheno, 0°12'39"N, 34°46'36"E, 1550 m, K. Howell, 7.11.1994

A/1407/1-3: 3 PT adult and subadult ♂♂, adult ♀: Kenya: Western Province, Kakamega District, Bukura, 0°14'N, 34°37'E, T. Madsen, 18.03.1983

Brevicipitidae

dawida, *Callulina dawida* Loader, Measey, De Sá & Malonza, 2009: 57–58

A/4267: HT adult ♀: Kenya: Taita-Taveta District, Kiangungu forest patch near Iyale forest, 37M 426787, UTM 9623928 (GPS), J. Mwandoo & T. Mwakio, 16.12.2004

A/1499/1, A/3534/1, 2 & 3, A/3913, A/4268/1 & 2: 7 PT: Kenya: Taita-Taveta District, Ngangao Forest, 3°22' S, 38°20' E, H.J. Beentje & J. Lorubun, 10.05.1985; R. Odhiambo, 10.02.1998; J. Measey, 07.05.2002; G.J. Measey & J. Mwandoo, 28.12.2004

A/3535, A/3703: 2 PT: Kenya: Taita-Taveta District, Chawia Forest, 3°28' S, 38°22' E, R. Odhiambo, 22.03.1998, P.K. Malonza, V. Muchai and R. Mwakio, 07.12.1999

A/3613/1 & 2, A/3617, A/3619; A/4266: 5 PT: Kenya: Taita-Taveta District, Fururu Forest, 3°30'S, 38°30'E, P.M. Odongo, 21.05.1998-01.06.1998, B.A. Bwong & G.J. Measey, 16.12.2004

A/3647/1 & 2: 2 PT ♂ & ♀: Kenya: Taita-Taveta District, Ndiwenyi Forest, 3°30'S, 38°30'E, P.M. Odongo, 4.-8.06.1998

Hyperoliidae

minutissimus, *Hyperolius minutissimus* Schiøtz, 1975: 167
HT in ZMUC

A/2079 (formerly ZMH R 079450-54): 1 PT adult ♂: Tanzania: between Dabaga and Kilosa, 7°00'S, 37°00'E (EAG), A. Schiøtz, & A.D. MacKay, 12.02.1971

ngorongoroensis, *Hyperolius viridiflavus ngorongoroensis* Schiøtz, 1975: 210
Current classification: Synonym of *Hyperolius glandicolor* Peters, 1878: 208
HT in ZMUC

A/51: 1 PT: Tanzania: Ngorongoro Crater, 2°45'S, 35°30'E (EAG), 9000 ft. Tony Acher, 17.11.1966

rubrovermiculatus, *Hyperolius rubrovermiculatus* Schiøtz, 1975: 154
HT in ZMUC

A/2076: 1 PT adult ♂: Kenya: Kwale District, Kwale, Shimba Hills, 4°13'S, 39°25'E (EAG), A. Schiøtz, & A.D. MacKay, 19.05.1968

A/788: 1 PT adult ♀: Kenya: Kwale District, Shimba Hills, North Giriama Point, 4°13'S, 39°25'E (EAG), 1.-30.11.1968, D. Sheldrick

septentrionalis, *Afraxalus pygmaeus septentrionalis* Schiøtz, 1974: 15
Current classification: Synonym of *Afraxalus stuhlmanni* Pfeffer, 1893: 99

A/938/1: HT: Kenya: Taita Taveta District, between Miti-Andei and Ngulia Hills, 3°30'S, 38°30'E (EAG), 1.-31.12.1969, MacKay, A.D. & A.D.F.W.

A/367: 1 PT: Kenya: Taita-Taveta District, N of Voi, 3°30'S, 38°30'E (EAG), 14.-20.04.1967, MacKay, A.D. & A.D.F.W.

A/938/2-8: 7 PT: Kenya: Taita Taveta District, between Miti-Andei and Ngulia Hills, 3°03'S, 38°12'E (EAG), 1.-31.12.1969, MacKay, A.D. & A.D.F.W.

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sheldricki, *Hyperolius sheldricki* Duff-MacKay & Schiøtz, 1971: 1

A/366/3: HT: Kenya: North of Aruba Dam, Tsavo National Park (East), 3°18'S, 38°54'E, A.D. MacKay, & A. Schiøtz, 20.04.1967

A/366/6 & 8: 2 PT: Kenya: Taita-Taveta Dist., N of Voi, 3°18'S, 38°54'E, A.D. MacKay, & A. Schiøtz, 14.-29.04.1967

A/929: 1 PT: Kenya: Kilifi District, 15 km W of Kakomeni, 3°14'S, 39°40'E, A.D. MacKay, 14.09.1969

sylvaticus, *Afraxalus sylvaticus* Schiøtz, 1974: 17
Current classification: *Afraxalus stuhlmanni sylvaticus* Schiøtz, 1974
HT in ZMUC

A/3045/1-10: 10 PT: Kenya: Kwale District, Kwale, 4°10'S, 39°10'E (EAG), A. Schiøtz, & A.D. MacKay, 19.05.1968

viridis, *Hyperolius viridis* Schiøtz, 1975: 110
HT in ZMUC

A/3000/1-4: 4 PT ♂♂: Tanzania: 30 miles SW of Mbeya, 8°30'S, 34°00'E, A. Schiøtz, & A.D. MacKay, 04.02.1971

A/3001/1-3: 3 PT ♂♂: Tanzania: 30 miles N of Sumbawanga, 8°25'S, 31°50'E, A. Schiøtz, & A.D. MacKay, 01.02.1971

Pyxicephalidae

kinangopensis, *Cacosternum kinangopensis* Channing & Schmitz, 2008: 76–77

A/4372: HT adult ♂: Kenya: Nyandarua District, North Kinangop Plateau, from a disused quarry near Murunguru village, 0°34'S, 36°29'E (GPS), 2434 m, A. Channing, 15.11.2005

A/1387/1-8: 8 PT: Kenya: North Kinangop, 0°36'S, 36°35'E, T. Madsen, 08.03.1983

GYMNOPHIONA

Caceliidae

niedeni, *Boulengerula niedeni* Müller, Measey, Loader & Malonza, 2005: 39

A/4294: HT adult ♀: Kenya: Taita-Taveta District, Sagalla Hills, approx. 100 m behind the Matatu (bus) terminus at Mwalangi shopping centre, 03°30.76'S,

38°34.59'E (GPS), 1080 m, H. Müller & D. Mwaghania, 23.01.2004

A/4295, A/4298/1-7: 8 PT: Same locality as holotype, H. Müller & D. Mwaghania, 23.01.2004; P.K. Malonza, 26.04.2004

REPTILIA

SQUAMATA

Agamidae

finchi, *Agama finchi* Böhme, Wagner, Malonza, Lötters & Köhler, 2005: 144

L/2534/2: HT ♂: Kenya: Teso District, 11 km E of Malaba, 0°34'N, 34°11'E (GPS), 1500 m, C. Bensch, B.A. Bwong, M. Hagen, V. Muchai and M. Peters, 12.10.2003

L/2534/1, 3 & 6: 3 PT: Same data as holotype

L/2533/3: 1 PT: Kenya: Teso District, 11 km E of Malaba, 0°34'N, 34°11'E (GPS), 1225 m, B. A. Bwong, S. Lötters and V. Muchai, 27.09.2003

Chamaeleonidae

asheorum, *Kinyongia asheorum* Necas, Sindaco, Kofený, Kopečná, Malonza & Modrý, 2009: 43
HT in MCC1

L/2699: 1 PT adult ♀: Kenya: Marsabit District, Korante clearing, approx. 8 km West of South Horr on the upper part of Mount Nyiro, 2°07'57.4"N, 36°51'51.8"E (GPS), 2450 m, David Modrý & Jana Kopečná, 06.09.2003

L/2595: 1 PT subadult ♂: Kenya: Marsabit District, western slope of Mt. Nyiro, above Tuum, 02°08'56"N, 36°48'50"E (GPS), 2270 m, Roberto Sindaco & Luca Borghesio, 06.02.2004

conirostratus, *Chamaeleo conirostratus* Tilbury, 1998: 293–299
Current classification: *Trioceros conirostratus* (Tilbury, 1998)

L/1949: HT: Sudan: SW Imatong Mountains, 4°06'N, 32°51'E (GE), Parker and Stubbs, 1.–31.12.1982

marsabitensis, *Chamaeleo marsabitensis* Tilbury, 1991: 159
Current classification: *Trioceros marsabitensis* (Tilbury, 1991)
HT in BMNH

L/1920/1&2: 2 PT: Kenya: Marsabit District, Marsabit Mountain Forest, NFD, 2°18'N, 37°58'E (GPS), 1250 m, Tilbury, C.R. & Sarah Tilbury, 21.05.1988

xantholophus, *Chamaeleo jacksonii xantholophus* Eason, Ferguson, & Hebrard, 1988: 586
Current classification: *Trioceros jacksonii xantholophus* (Eason, Ferguson & Hebrard, 1988)

L/1796: HT adult ♂: Kenya: Meru District, 3 km S of Meru, Town from farmland east of road to Nkubu (National Trunk Rd B6) in the vicinity of Gikumene Secondary School, 0°00'N, 37°50'E, Gary Furgerson W. J. Hebrard & J. Murphy, 07.01.1983

L/1816/1-5, L/1817/7, L/1817/1-6, L/1816/6: 6 PT adult ♂♂, 7 PT adult ♀♀: Same data as holotype

Cordilidae

beraducii, *Cordylus beraducii* Broadley & Branch, 2002: 22
HT in NMBZ

L/2450/1-2: 2 PT: Tanzania: Kitete District, Ndukuvi Village (10 km SE of Lolkisale), Arusha Region, 3°50'S, 36°30'E (GPS), Joe Beraducci, 22.12.1999

Elapidae

ashei, *Naja ashei* Wüster & Broadley, 2007: 58–59

S/3993: HT adult ♀: Kenya: Malindi District, Watamu, 3°21'S, 40°01'E (GPS), Royjan Taylor, 15.01.2002 (maintained in captivity at Bio-Ken Snake farm until 29.09.2004)

Gekkonidae

barbierii, *Hemidactylus barbierii* Sindaco, Razzetti, Ziliani, Wasonga, Carugati & Fasola, 2007: 39
HT adult ♀ in MBAP

L/3054: 1 PT adult ♀: Kenya: Marsabit District, 'Petried' Forest 10 km inland from Allya Bay, 3°40'23"N, 36°19'43"E (GPS), Ziliani, Razzetti, Sindaco & Carugati, 06.08.2005

Viperidae

desaxi, *Atheris desaxi* Ashe, 1968: 53–55

S/1626: HT adult ♀: Kenya: Meru District, near Chuka, 0°20'S, 37°35'E, 1600 m, in rain forest, F. De Saix, 3.07.1967

S/1627,1629, S/1630: 2 PT adult ♀♀, **1 AL** adult ♂: Kenya: Meru District, near Chuka, 1600m, in rain forest, F. De Saix, 01.10.1967

S/1628, S/1631: 2 PT adult ♀♀: Kenya: Meru District, near Chuka, 1600 m, in rain forest, J. Ashe, 17.10.1967 & 19.09.1967

kemensis, Leptotyphlops kemensis Broadley & Wallach, 2007: 38

S/ 2903: HT adult ♀: Kenya: Central Province, Nyeri, 0°25' S, 36°56' E, just below 2000 m, F.J. McCartney, 24.02.1983

swahilic, Lethoebia swahilica Broadley & Wallach, 2007: 47
HT in MCZ

S/ 3947: 1 PT adult: Kenya: Coast Province, Mazeras, old village of Ngatana, ca. one mile Northwest from new village of Wema, in the lower Tana River, 02°30' S, 40°15' E, 50 m, A. Loveridge, 14.06.1934

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